

ABSTRACT

A replica generation section 103 performs multicarrier demodulation of a known signal of a received signal and generates a replica. A delay profile generation section 104 calculates a correlation value between the replica and the received signal and generates a delay profile. An integral value calculation section 105 integrates the correlation values for each fixed range of the delay profile and calculates a plurality of integral values. A maximum integral value detection section 106 detects the maximum integral value, which is the maximum value of the integral values. A demodulation timing detection section 107 detects the demodulation timing at which multicarrier demodulation is performed from the position of the maximum integral value.